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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,564	12/18/2000	Kyoko Higashino	Q61786	9907
75	90 06/12/2002			
	IION, ZINN, MACPE nia Avenue, N.W.	EXAMINER CUEVAS, PEDRO J		
Washington, DC				
			ART UNIT	PAPER NUMBER
			2834	

Please find below and/or attached an Office communication concerning this application or proceeding.

1	=		Me
9	Application No.	Applicant(s)	
	09/737,564	HIGASHINO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Pedro J. Cuevas	2834	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILLING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of \$7 CPR 1.1 after \$1X (0) MCNT18 from the mailing otate of this communication. If \$10 CPR 1.1 after \$1X (0) MCNT18 from the mailing otate of this communication. If \$10 CPR 1.1 after \$10 CPR 1.1 af	36(a). In no event, however, may a rep within the statutory minimum of thirty will apply and will expire SIX (6) MONT cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communics NDONED (35 U.S.C. S 133).	ation.
1) Responsive to communication(s) filed on 10 A	April 2001 .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Th	is action is non-final.		
Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims			its is
4) Claim(s) 1-10 is/are pending in the application	l.		
4a) Of the above claim(s) 3 and 4 is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,2 and 5-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10)⊠ The drawing(s) filed on 18 December 2000 is/a	re: a)⊠ accepted or b)⊡ obj	ected to by the Examiner.	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on	_is: a)□ approved b)□ di	approved by the Examiner.	
If approved, corrected drawings are required in rep	•		
12)☐ The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.		
<ol><li>Certified copies of the priority document</li></ol>	s have been received in Ap	plication No	
Copies of the certified copies of the prior     application from the International Bu     See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_	
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. §	119(e) (to a provisional applic	cation).
a) The translation of the foreign language pro	ovisional application has be	en received.	•
Attachment(s)		-	
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Notice of Draftsperson's Patentics) (PTO-1449) Paper Noc	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	_·

FORM PTO-1472 (Rev. 3-98)

Application No.

# **U.S. DEPARTMENT OF COMMERCE**

PATENT AND TRADEMARK OFFICE

AU: 2834

Legal Instrument Examiner

## **EXAMINER'S CASE ACTION WORKSHEET**

09/737,564				·	
CHEC	DATE OF COUNT				
$\boxtimes$	Non-Final Rejection		Restriction/ Election Only		Final Rejection
	Ex Parte Quayle		Allowance		Advisory Action
	Examiner's Answer		Reply Brief Noted		Non-Entry of Late Paper
	Defective Notice of Appeal or Defective Appeal Brief		Interference SPE_ (Approval for Disposal)		Suspension SPE
	Allowance After Examiner's Answer		SIR Disposal (use only after FAOM)		Post-Allowance Communication
	Miscellaneous Office Letter (With Shortened Statutory Period Set)		Notice of Non-Responsive Amendment (With One Month Time Period set)		Miscellaneous Office Letter (No Response Period Set)
	Letter Requiring Formal Drawings	(Exclud	Supplemental Action ling Examiner's Answer)		Response to a Rule 312 Amendment
	Restart Time Period (e.g., Missing References)		Interview Summary		Authorization to Change Previous Office Action SPE: (Initial)
	Abandonment		Express Abandonment Date:		Abandonment After Examiner's Answer

Examiner's Name: Pedro J. Cuevas

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#### DETAILED ACTION

#### Response to Arguments

 Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
  obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 2 and 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S.
   Patent No. 6.204.586 B1 to Umeda et al. in view of U.S. Patent No. 6.208.058 to Taji et al.

Umeda et al. clearly teaches the construction of a stator (2) for an alternator, the stator comprising:

a cylindrical stator core (32) formed circumferentially with a number of slots (35) extending axially; and

a stator winding (Figure 7) composed of a three-phase stator winding portion constructed by connecting three winding phase portions into a three-phase star connection (Column 5, lines 34-35), each of the winding phase portions being installed in the stator core by sequentially inserting strands of wire into the slots at predetermined intervals and a neutral point of the stator winding being electrically connected to a rectifier (5) for rectifying alternating-current output, wherein

each of the strands of wire constituting the three winding phase portions is led out from a coil end group of the stator winding to an outer side to constitute a neutral-point terminal (33k); each of the neutral-point terminals (33k) has a flat side surface portion;

a neutral-point joint portion of the stator winding is constructed by abutting and electrically joining the flat side surface portions of the neutral-point terminals (33k); the strands of wire are conducting wires having a rectangular cross section; the neutral-point terminals (33k) of the strands of wire constituting the three winding phase portions comprise:

a first neutral-point terminal (Y1) positioned centrally in a circumferential direction, the first neutral-point terminal (Y1) being led axially outwards from the coil end group to constitute a neutral-point lead portion connected to the rectifier; and

second and third neutral-point terminals (X2, Z2) positioned on first and second sides in the circumferential direction, each being led axially outwards from the coil end group, then bent, and led around to the first neutral-point terminal (Y1),

wherein the side surface portions at tips of the second and third neutral-point terminals (X2, Z2) are abutted and electrically joined from the first and second sides in the circumferential direction to the side surface portions of a portion of the first neutral-point terminal (Y2) led out from the coil end group;

at least a part of the neutral-point terminals (33k) extending from the coil end group to the outer side is secured to the coil end group by means of an electrically-insulating resin portion (adhesive of insulation tube 333);

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the connecting member constitutes a neutral-point lead portion connected to the rectifier; and

the electrical joining is welding (Column 4, lines 20-21).

However, it fails to disclose a connecting member composed of a conductor having flat side surface portions, the flat side surface portions of the neutral-point terminals and the connecting member being abutted and electrically joined to each other; and the connecting member constitutes a neutral-point lead portion connected to the rectifier.

Taji et al. teach the construction of an automotive alternator having:

a connecting member composed of a conductor having flat side surface portions, the flat side surface portions of the neutral-point terminals (41) and the connecting member being abutted and electrically joined to each other,

for the purpose of electrically connect the stator coil (35) to the rectifier (12).

It would have been obvious to one skilled in the art at the time the invention was made to use the automotive alternator metallic conductor connector disclosed by Taji et al. on the stator disclosed by Umeda et al. for the purpose of electrically connect the stator coil (35) to the rectifier (12).

#### Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Néstor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas June 4, 2002

NESTOR RAMIREZ
SUPERVISORY OCTENT EXAMINER